



SDMS DocID 2232156

Lord Corporation

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REC'D
1/13/97**CERTIFIED MAIL**

Mr. David P. Turner, RPM (3HW22)
United States Environmental Protection Agency
Region III
841 Chestnut Building
Philadelphia, PA 19107-4431

February 3, 1997

Reference: Lord-Shope RA Monthly Progress Report

Dear Mr. Turner:

Lord is hereby submitting five copies of the monthly progress report for the period of January 1, 1997 through February 1, 1997.

The following work was conducted during this period:

REMEDIAL ACTION

Therm Tech completed the design for the rebuilding of the thermal oxidizer as planned. The design calls for 304L stainless construction throughout the burning chamber and including the stack. The entire stainless steel construction burn chamber has been placed inside the existing burn chamber. The rectangular stack has been replaced with a stainless steel pipe. Guy wires provide additional support to the unit. Dwell time in the combustion chamber is essentially the same as the original design because the first rebuild incorporated a larger burn unit than the original design. All other aspects of the thermal oxidizer remain the same.

The fabrication of the unit commenced on Monday January 20 on site and was completed on January 28, 1997. The unit will be scheduled after the system has equilibrated. The operating conditions are designed to meet the original design criteria.

The groundwater treatment unit operation was normal during this interim. A copy of the NPDES report for December was submitted under separate cover; all parameters were within specification.

Lord is now evaluating the biogeochemical data for intrinsic remediation effect and the groundwater quality and drawdown data for impact on plume remediation. Lord and Eckenfelder plan to report their findings in February. This report will address concerns and questions presented in comments from USEPA regarding intrinsic remediation and Long Term Monitoring Plan. A preliminary review of the data shows continued reduction of contaminant concentration throughout the site, including the far reaches of the plume on Over Lake property.



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Lord has also been experiencing problems with algae buildup in the groundwater extraction pump system and with calcium carbonate scale in the groundwater treatment system discharge pumps. Lord has consulted with Eckenfelder, Inc. and Betz Dearborne on these problems. Resolution of these problems will require chemical addition to the system. Lord has been working closely with Bob Kimball of PADEP concerning these chemical additions; a revision to the NPDES permit will be required. Lord provided PADEP with details of the planned changes and chemical information regarding chemicals, dosage, MSDS, toxicity information, etc. Mr. Kimball granted approval of usage of this material for algae control and agreed to modify the permit. Some details are still being worked out on how this chemical addition may be monitored; when this matter is resolved, Lord plans to commence addition of the required chemicals. Algae continue to build up in the system and reduce intake water flow; pumps are lasting about 30 days before they must be removed from the ground and cleaned. The chemical addition is designed to eliminate this maintenance problem.

MISCELLANEOUS:

PADEP have continued to assist Lord by participating in the groundwater sampling on Over Lake property. Their assistance is greatly appreciated.

USEPA reported that the Army Corps had completed the assessment of the Over Lake property. Release of the final report could assist in the negotiation process for access to this property; these negotiations continue to be at an impasse.

Lord submitted the Fall 1996 results for the Long Term Monitoring and Intrinsic Remediation on January 22, 1997.

Very truly yours,

LORD CORPORATION

Eugene A. Miller
Manager, Environmental Services

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cc: (b) (4) - Eckenfelder, Inc.
(b) (4) - Eckenfelder, Inc.
Robert J. Kimball, PADEP (Certified Mail - 3 copies)